



1/10

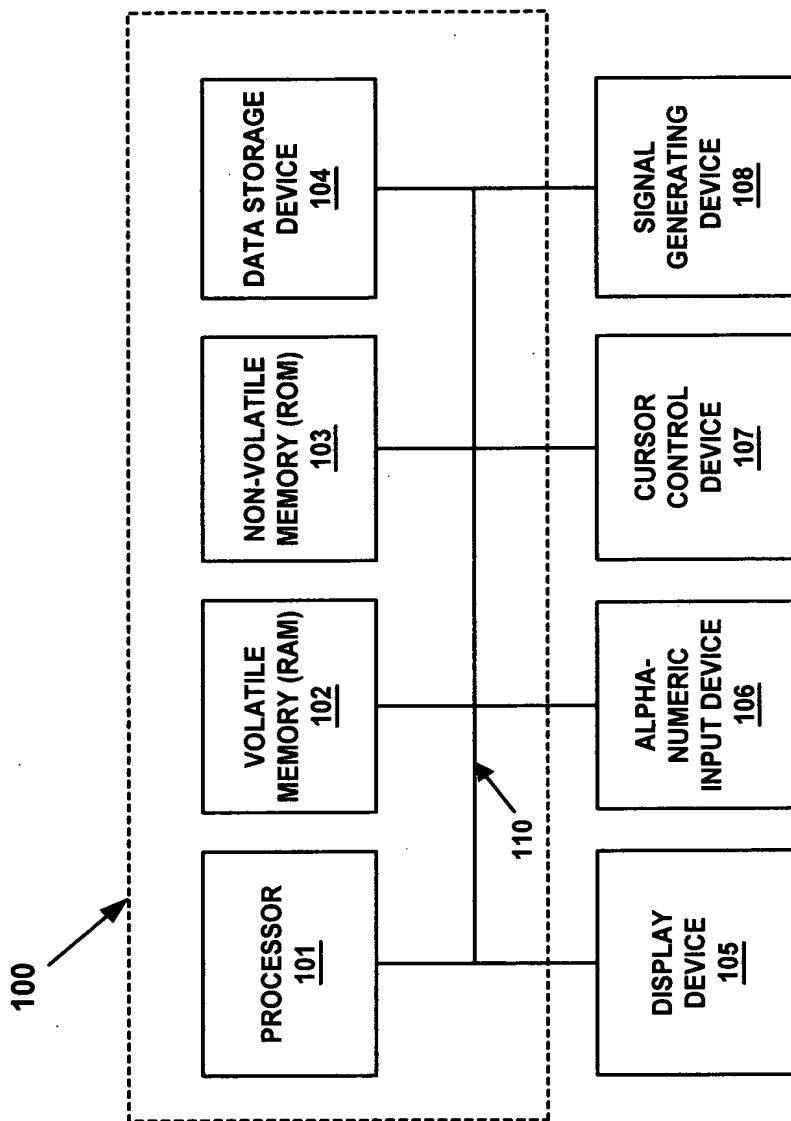
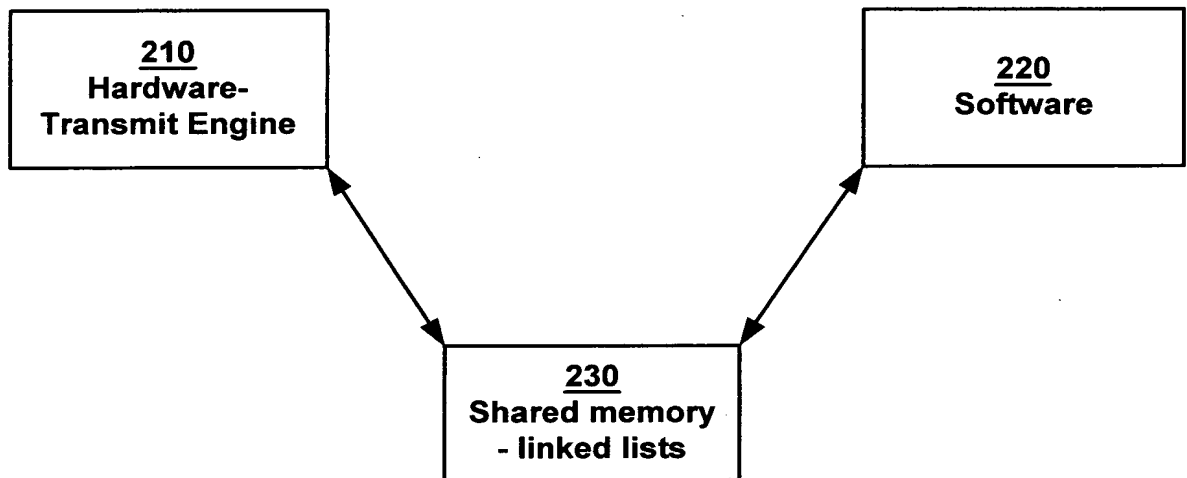


FIG.1

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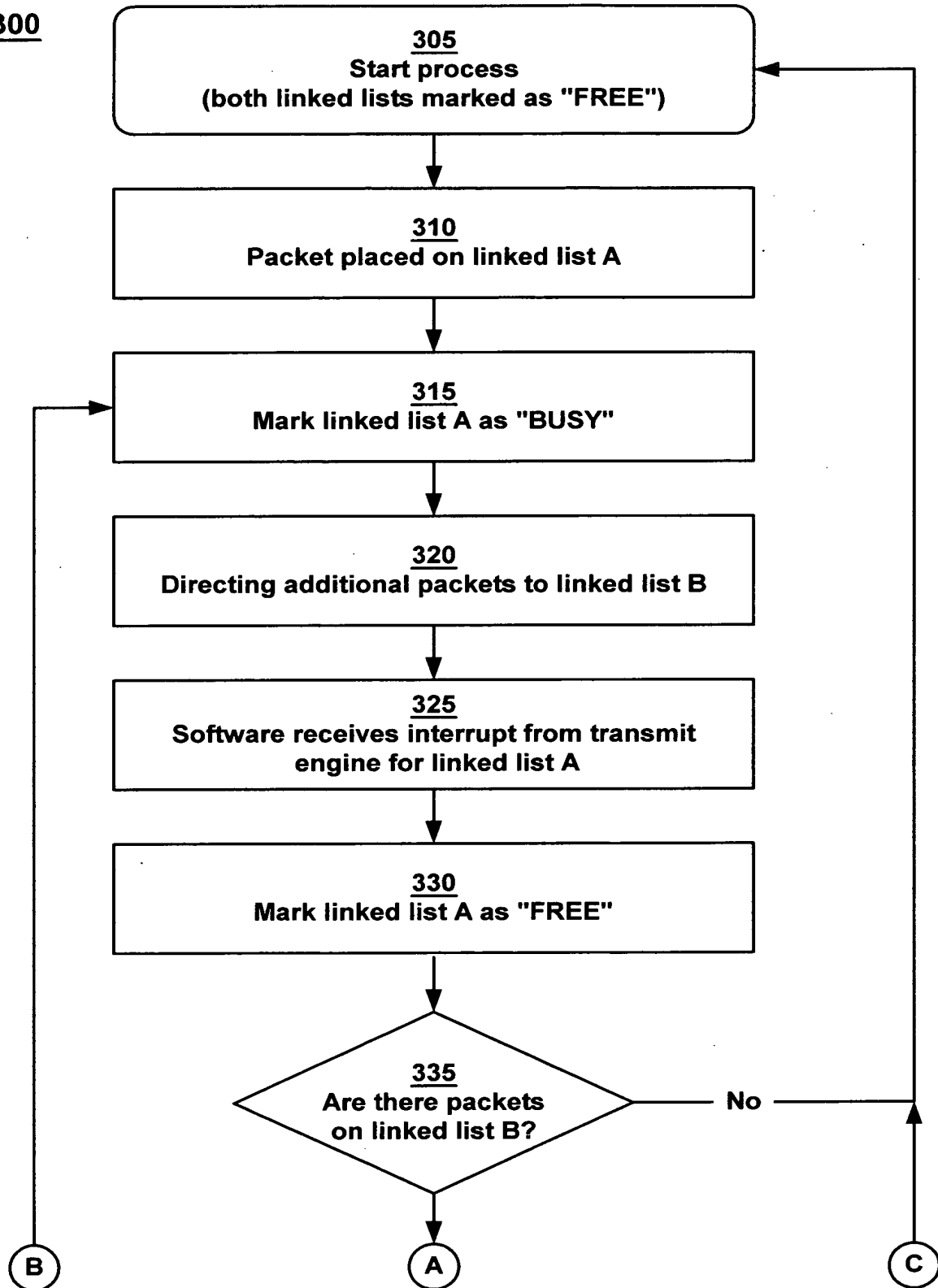
**200**



**FIG. 2**

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**300**



**FIG. 3A**

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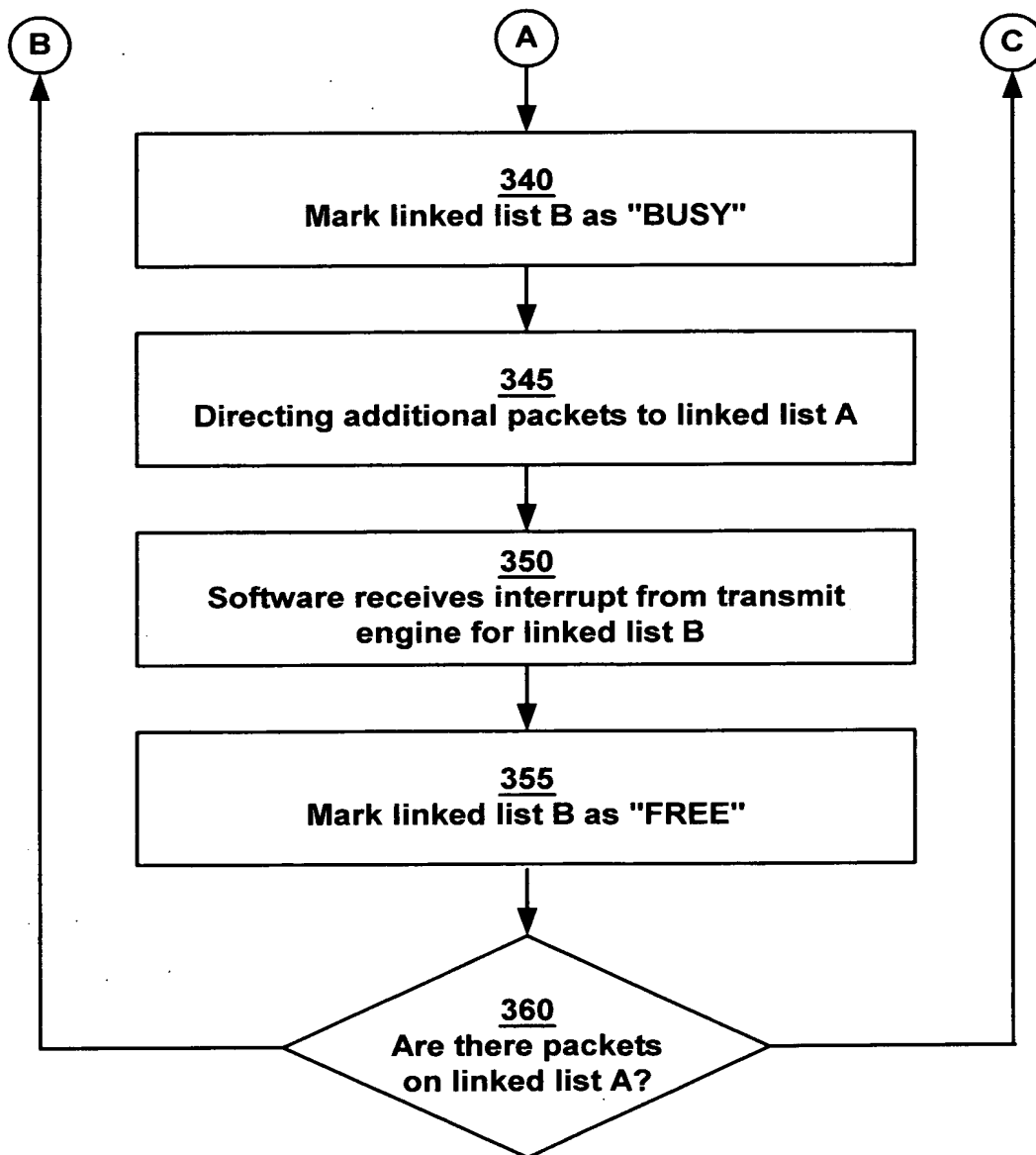


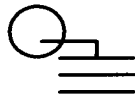
FIG. 3B

INITIAL CONDITION

SOFTWARE LISTS

LIST A

FREE



LIST B

FREE



TRANSMIT ENGINE

FREE

FIG. 4A

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AS FLOW CONTINUES

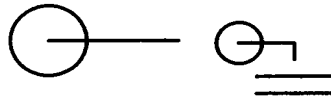
SOFTWARE SENDS ONE PACKET

SOFTWARE LISTS

TRANSMIT ENGINE

LIST A

BUSY



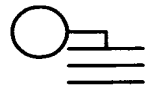
FREE

PROGRAM ADDRESS OF LIST A

BUSY WITH LIST A

LIST B

FREE



BUSY WITH LIST A

FIG. 4B

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TRANSMIT ENGINE WORKING ON LIST A, SOFTWARE WANTS TO SEND MORE PACKETS

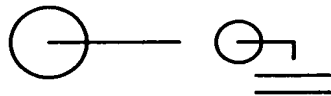
SOFTWARE LISTS

TRANSMIT ENGINE

LIST A

BUSY

BUSY WITH LIST A



SOFTWARE PUTS ALL PACKETS IN LIST B

BUSY WITH LIST A

LIST B

FREE

BUSY WITH LIST A

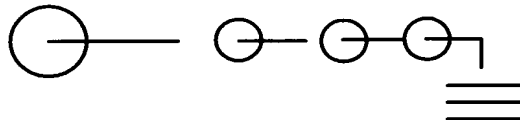


FIG. 4C

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**HARDWARE ISSUES INTERRUPT FOR BUSY LIST**

**SOFTWARE LISTS**

**LIST A**

**BUSY**



**TRANSMIT ENGINE**

**INTERRUPT FOR LIST A**

**SOFTWARE MARKS LIST A AS FREE AND  
LIST B AS BUSY.**

**TRANSMIT ENGINE  
BUSY WITH LIST B**

**SOFTWARE PROGRAMS ADDRESS OF  
LIST B TO TRANSMIT ENGINE.**

**FIG. 4D**



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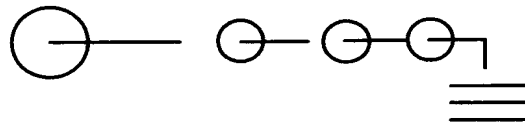
HARDWARE WORKING ON LIST B and SOFTWARE WANTS TO SEND  
MORE PACKETS

SOFTWARE LISTS

TRANSMIT ENGINE

LIST A

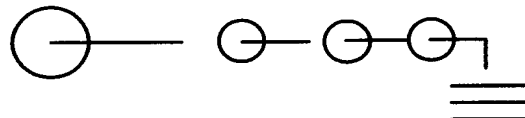
FREE



WORKING ON LIST B

LIST B

BUSY



WORKING ON LIST B

FIG. 4E

500

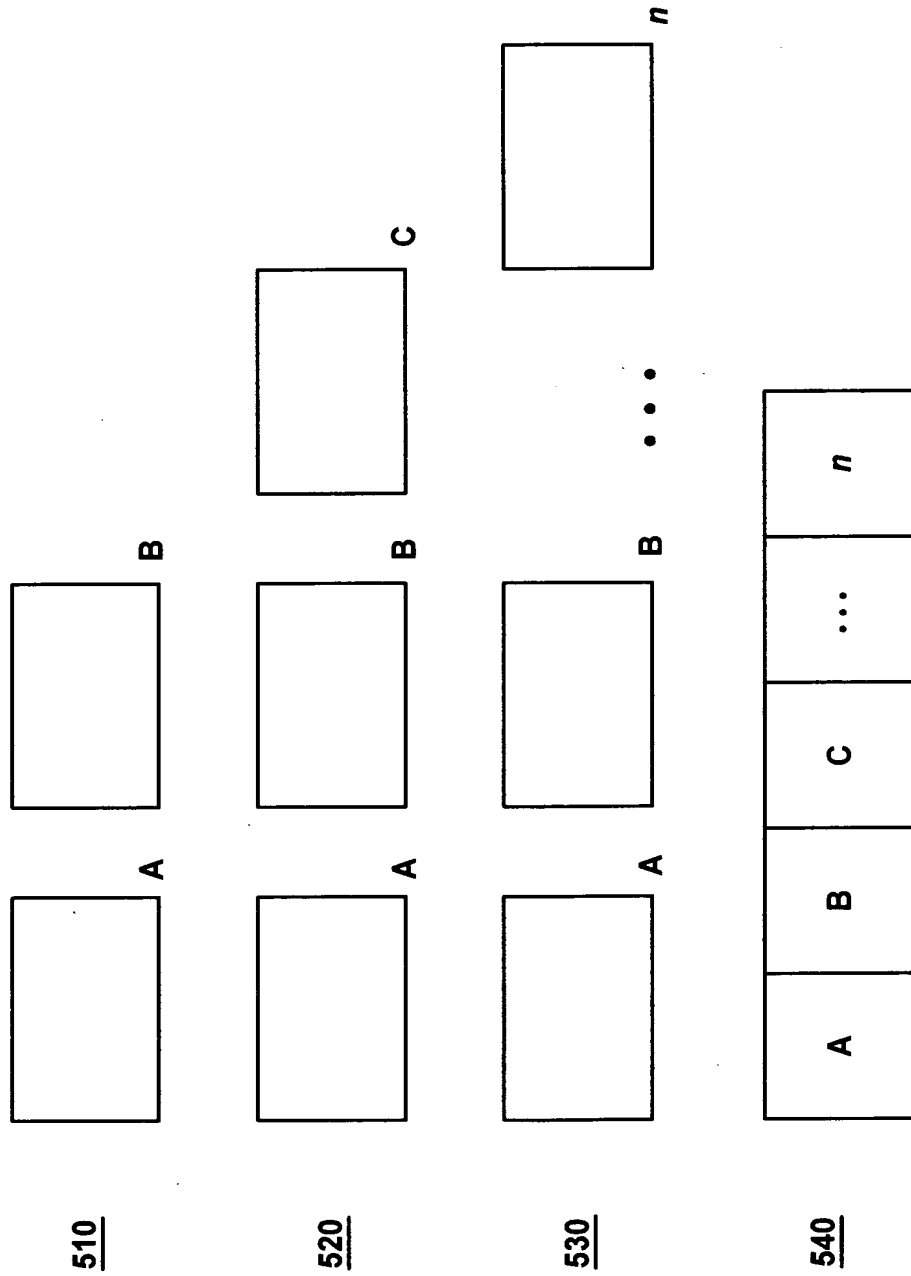


FIG. 5